

Small Animal Clinic)	Departmental
Hancock County)	Findings of Fact and Order
Ellsworth, Maine)	Air Emission License
A-541-71-D-N)	After-the-Fact Renewal

After review of the air emissions license application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Small Animal Clinic of Ellsworth, Maine has applied to renew their Air Emission License permitting the operation of emission sources associated with their Class IV-A (veterinary) incinerator, to dispose of animal remains.

Small Animal Clinic was previously licensed at a preheat temperature of 1400 °F. Visible emissions have been observed under the 1400 °F preheat condition and opacity was within licensed limits. The facility continues to be licensed at a 1400°F preheat temperature in this license.

B. Emission Equipment

One Shenandoah Model P25-2G with the following specifications:

Class Incinerator:	IV-A
No. of Chambers:	2
Type of Waste:	Type 4
Max. Design Feed Rate:	60 lb/hr
Auxiliary Fuel Input:	LPG
Primary Chamber:	319,000 Btu/hr
Secondary Chamber:	800,000 Btu/hr
Emissions Control:	Afterburner

C. Application Classification

The previous air emission license for Small Animal Clinic expired on August 5, 2002. A complete application was not submitted on time, therefore Small Animal Clinic is considered to be an existing source applying for an after-the-fact renewal. The Department has determined the facility is a minor source and the

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application has been processed through Chapter 115 of the Department's regulations.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Department regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas. BPT for an after-the-fact renewal requires an analysis similar to a Best Available Control Technology analysis per Chapter 115 of the Department's regulations.

B. Shenandoah P25-2G

Small Animal Clinic operates one Shenandoah P25-2G Incinerator, manufactured in 1985, with a maximum feed rate of 60 lb/hr and firing LPG as auxiliary fuel in one 319,000 Btu/hr and one 800,000 Btu/hr burners. The incinerator is not subject to New Source Performance Standards (NSPS).

BPT for the incinerator is the following:

1. A maximum particulate emission rate of 0.12 gr/dscf corrected to 12% CO₂ will be met.
2. Visible emissions from the incinerator shall not exceed 10% on a 6-minute block average basis.
3. Operating temperature in the secondary chamber shall be maintained at or above 1600°F, with a stack gas retention time, at or above 1600°F, of at least 0.5 second.
4. To insure an efficient burn, and to prevent odors and visible emissions, the secondary chamber will be preheated, as specified by the manufacturer, until the pyrometer temperature measures at least 1400°F.
5. The temperature in the secondary chamber shall be maintained at a minimum of 1600°F for the duration of the burn cycle.
6. A pyrometer and 1/4 inch test port shall be installed and maintained at that location of the incinerator or refractory lined stack which provides sufficient volume to insure a flue gas retention time of not less than 0.5 second at a minimum of 1600°F.
7. A log will be maintained recording the weight of the waste charged, preheat time, charging time and the temperature of the secondary chamber every 60 minutes after start-up until, and including, final shutdown time. For facilities

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operating a chart recorder, the start time, date, and weight charged shall be logged on the chart.

8. The ash will be disposed of in accordance with the requirements of the Bureau of Remediation and Waste Management.
9. The incinerator operator(s) shall receive adequate training to operate the incinerator in accordance with the manufacturer's specifications and shall be familiar with the terms of the Air Emission License.

C. Annual Emission Restrictions

Small Animal Clinic shall be restricted to the following annual emissions, based on a 12 month rolling total:

Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

<u>Pollutant</u>	<u>Tons/Year</u>
PM	0.8
PM ₁₀	0.8
SO ₂	0.1
NO _x	0.8
CO	0.1
VOC	0.1

III.AMBIENT AIR QUALITY ANALYSIS

According to Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Based on the above total facility emissions, Small Animal Clinic is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-541-71-D-N subject the following conditions:

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STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (Title 38 MRSA §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.

- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during

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which no violation occurred or that the violation was not continuing in nature; and

- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.

SPECIFIC CONDITIONS

(16) Shenandoah P25-2G Incinerator

- (i) The incinerator shall not exceed the maximum design feed rate of 60 lb/hr and a maximum designed combustion rate of 120 lb/hr. Auxiliary fuel input to the primary and secondary chamber shall not be less than 319,000 Btu/hr and 800,000 Btu/hr of LPG, respectively.
- (ii) The incinerator shall be used for the disposal of type 4 (veterinary) waste and shall not be used for the disposal of any plastics, cytotoxic (antineoplastic) drugs or any radioactive wastes and shall not be used to dispose of any medical waste.
- (iii) Small Animal Clinic shall not exceed a particulate matter emission rate of 0.12 gr/dscf corrected to 12% CO₂. Therefore, based on the maximum design combustion rate and continuous operation of the Class IV-A incinerator, emissions shall be limited to the following:

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	PM	PM₁₀	SO₂	NO_x	CO	VOC
gr/dscf	0.12	0.12	N/A	N/A	N/A	N/A
lb/hr	1.83	1.83	.02	1.83	0.02	0.02

Compliance shall be demonstrated through stack testing in accordance with the appropriate method found in 40 CFR Part 60, Appendix A, and by request of the Department.

- (iv) Visible emissions from the incinerator shall not exceed 10% on a 6-minute block average basis.
 - (v) A log shall be maintained recording the weight of the waste charged, preheat time, charging time and the temperature of the secondary chamber every 60 minutes after start-up until, and including, final shutdown time. For facilities operating a chart recorder, the start time, date, and weight charged shall be logged on the chart. The log shall be maintained according to Condition 8.
 - (vi) The secondary chamber shall be preheated to a minimum of 1400°F prior to the burning of any waste, and shall be maintained at or above 1600°F with a stack gas retention time, at or above 1600°F, of at least 0.5 seconds.
 - (vii) A pyrometer and 1/4 inch test port shall be installed and maintained at that location of the incinerator or refractory lined stack which provides sufficient volume to insure a flue gas retention time of not less than 0.5 seconds at a minimum of 1600°F. The temperature shall be recorded according to Condition 16(v).
 - (viii) The incinerator combustion gases shall vent to a stack of at least 20 feet AGL.
 - (ix) The ash shall be disposed of in accordance with the requirements of the Bureau of Remediation and Waste Management.
 - (x) The incinerator operator(s) shall receive adequate training to operate the incinerator in accordance with the manufacturer's specifications and shall be familiar with the terms of the Air Emission License.
- (17) Although it is not required at the present time, the installation and operation of continuous chart recording devices may become necessary to document compliance with the temperature requirements of this license. Should the Bureau of Air Quality determine that continuous recording devices are necessary, the licensee shall, within 120 days, demonstrate that continuous recorders have been installed and are operational.
- (18) Small Animal Clinic shall pay the annual air emission license fee within 30 days of June 30 of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3.

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(19) The term of this Order shall be for five (5) years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: August 19, 2002

Date of application acceptance: August 27, 2002

Date filed with the Board of Environmental Protection: _____

This Order prepared by Rachel E. Pilling, Bureau of Air Quality